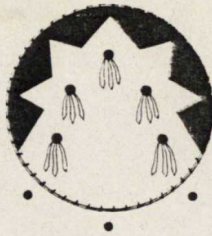


# WHITE SHIELD

# ENVIRONMENTAL



P.O. Box 477 Grandview, WA 98930-0477

(509) 882-1144 Fax (509) 882-4566

October 16, 1996

Mr. Jo Miles  
City of Toppenish  
21 West First Street  
Toppenish, WA 98948

Re: Stockpile Sample Results

Dear Mr. Miles:

White Shield, Inc. (WSI) collected three soil samples from the stockpile located at the Wastewater Treatment Plant on Annahat Road, Toppenish, WA, on October 3, 1996. A site map is attached for your convenience. (See Appendix A).

Three soil samples were collected and submitted to OnSite Environmental Inc., Redmond, Washington, for analyses. All of the samples were analyzed with WTPH-D method for diesel fuel contaminants. The laboratory analytical results are enclosed in the table below:

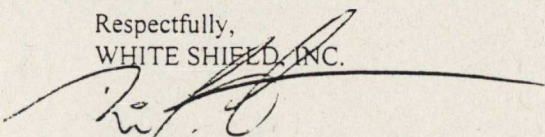
Sample	Location	WTPH-D
COT-0296-101sp	Stockpile	86 ppm
COT-0196-102sp	Stockpile	130 ppm
COT-0196-103sp	Stockpile	120 ppm

Results are in parts per million (ppm).

Copies of the laboratory analytical report and chain of custody are attached as Appendix B. Based on the soil analyses the stockpile soil is considered a Class 2 soil, according to Guidance for Remediation of Releases from Underground Storage Tanks, TABLE V End Use for Petroleum Contaminated Soils. (Appendix C) Therefore, no further remediation is recommended.

We appreciate the opportunity to provide you with technical assistance for your project. Please call us at (509) 882-1144 if you have any questions or comments.

Respectfully,  
WHITE SHIELD, INC.

  
Rick Funderburk  
Environmental Technician

cc: Environmental Protection Agency, Region X, Robert Cutler

A Certified ALPHA Bioremediation Company

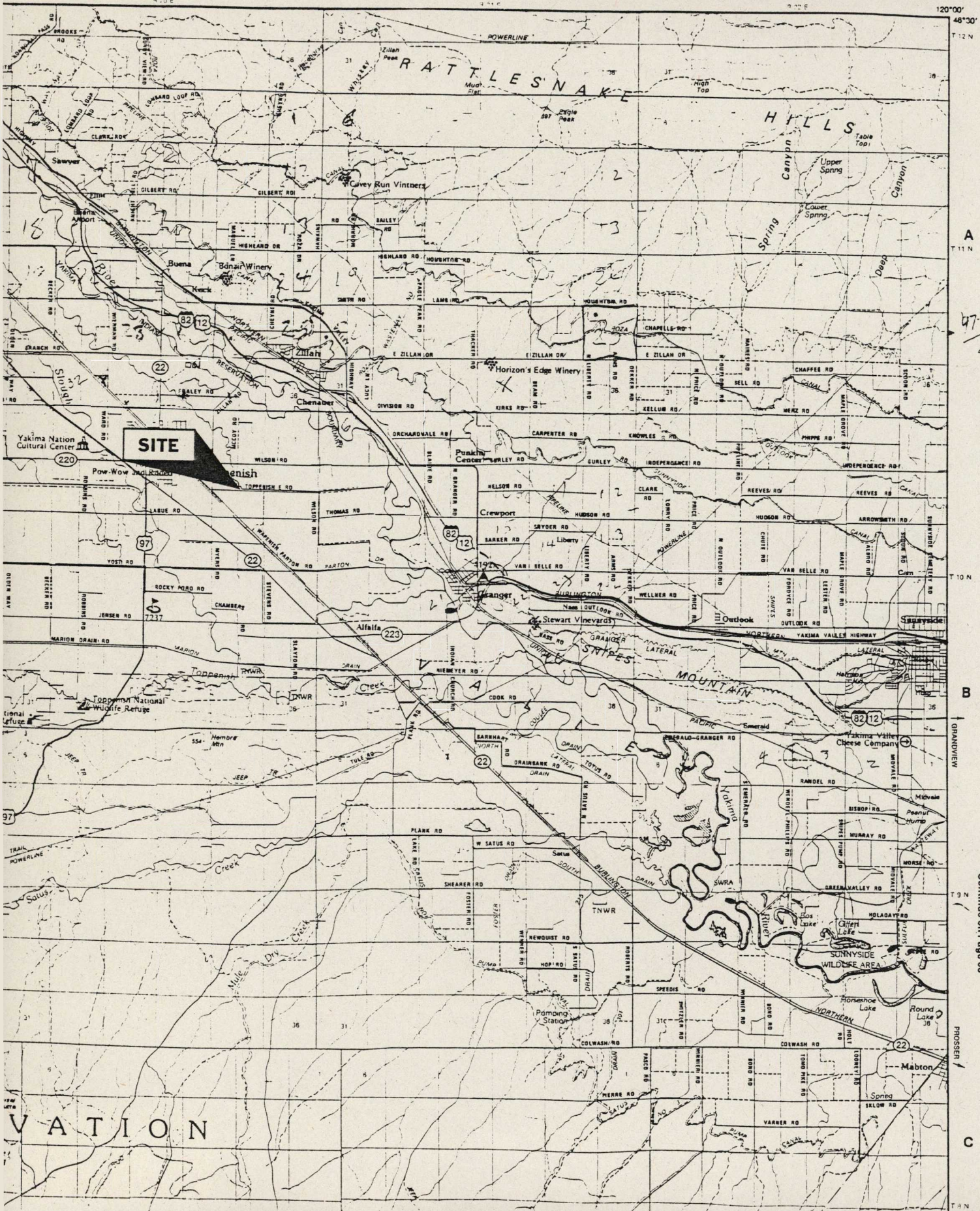


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Continue on Page 38

VATION





October 9, 1996

Rick Funderburk  
White Shield, Inc.  
P.O. Box 477  
Grandview, WA 98930

Re: Analytical Data for Project COT-0296  
Laboratory Reference No. 9610-024

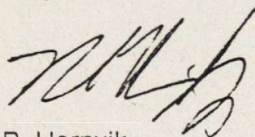
Dear Rick:

Enclosed are the results of the analyses, and associated quality control data, of samples submitted on October 5, 1996.

The standard policy of OnSite Environmental Inc., is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



Karl P. Hornyik  
Project Chemist

Enclosures



Date of Report: October 9, 1996  
Samples Submitted: October 5, 1996  
Lab Traveler: 10-024  
Project: COT-0296

## WTPH-D

Date Extracted: 10-07-96  
Date Analyzed: 10-07-96

Matrix: Soil  
Units: mg/Kg (ppm)

Client ID	Lab ID	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery*	Flags	MRL
COT-0296-101SP	10-024-1	1.0	<b>86</b>	96%		25
COT-0296-102SP	10-024-2	1.0	<b>130</b>	95%	O	25
COT-0296-103SP	10-024-3	1.0	<b>120</b>	82%	O	25

O - Hydrocarbons in the heavy oil range (>C24) present in the sample.  
\* o-Terphenyl



Date of Report: October 9, 1996  
Samples Submitted: October 5, 1996  
Lab Traveler: 10-024  
Project: COT-0296

WTPH-D  
METHOD BLANK QUALITY CONTROL

Date Extracted: 10-07-96  
Date Analyzed: 10-07-96

Matrix: Soil  
Units: mg/Kg (ppm)

Lab ID: MB1007S1

	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery*	Flags	MRL
Method Blank	1.0	ND	90%		25

\* o-Terphenyl



Date of Report: October 9, 1996  
Samples Submitted: October 5, 1996  
Lab Traveler: 10-024  
Project: COT-0296

WTPH-D  
DUPLICATE QUALITY CONTROL

Date Extracted: 10-07-96  
Date Analyzed: 10-07-96

Matrix: Soil  
Units: mg/Kg (ppm)

Lab ID: 10-022-18

	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery*	Flags	MRL
Sample	1.0	ND	85%		25
Duplicate	1.0	ND	86%		25
RPD		NA			

\* o-Terphenyl



Date of Report: October 9, 1996  
Samples Submitted: October 5, 1996  
Lab Traveler: 10-024  
Project: COT-0296

WTPH-D  
SB/SBD QUALITY CONTROL

Date Extracted: 10-07-96  
Date Analyzed: 10-07-96

Matrix: Soil  
Units: mg/Kg (ppm)

Lab ID: SB1007S1

	Dilution Factor	Total Petroleum Hydrocarbons	Percent Recovery	Surrogate Recovery*	Flags	MRL
Spike Blank @ 100 ppm	1.0	92.2	92%	104%		25
Spike Blank Duplicate	1.0	92.1	92%	106%		25
RPD		0.12%				

\* o-Terphenyl



Date of Report: October 9, 1996  
Samples Submitted: October 5, 1996  
Lab Traveler: 10-024  
Project: COT-0296

Date Analyzed: 10-7-96

**% MOISTURE**

Client ID	Lab ID	% Moisture
COT-0296-101SP	10-024-1	15
COT-0296-102SP	10-024-2	6.0
COT-0296-103SP	10-024-3	5.0





## Chain Of Custody

Company: White Shield Inc  
Project No: 06T-0296  
Project Name: City of Brents/H  
Project Manager: P. UNDERBURY

<b>Turn Around Requested</b>  (Check One)  <input type="checkbox"/> Same Day  <input type="checkbox"/> 24 Hours  <input type="checkbox"/> 48 Hours  <input checked="" type="checkbox"/> Standard  <input type="checkbox"/> _____ (other)	Project Chemist: <u>1/4</u>  <b>Laboratory No.</b>
<b>Requested Analysis</b>	
1-HCID  1-G/BTEX  1-D  1-418.1  es by 8240/624  es by 8260  nated Volatiles by 8240/8260/624  volatiles by 8270/625  by 8270/625  6 by 8080/608  RCRA Metals (8)  Metals	Moisture

[illegible]

RELINQUISHED BY <i>[Signature]</i>	DATE 11-11-96	RECEIVED BY <i>[Signature]</i>	DATE 10/5/96	COMMENTS:
FIRM NST	TIME 8:40	FIRM On Site Evaluation	TIME 17:00	
RELINQUISHED BY	DATE	RECEIVED BY	DATE	
FIRM	TIME	FIRM	TIME	
REVIEWED BY		DATE REVIEWED		



TABLE V. END USE CRITERIA FOR PETROLEUM-CONTAMINATED SOILS

Analyte	Analytical Method	Soil Class (ppm)			
		1	2	3	4
Heavy fuel hydrocarbons (C24-C30)	WTPH-418.1 mod.	<60	60-200	200-2000	>2000
Diesel (C12-C24)	WTPH-D	<25	25-200	200-500	>500
Gasoline (C6-C12)	WTPH-G	<5	5-100	100-250	>250
Benzene	8020	<0.005	0.005-0.5	≤0.5	>0.5
Ethylbenzene	8020	<0.005	0.005-20	≤20	>20
Toluene	8020	<0.005	0.005-40	≤40	>40
Xylenes (total)	8020	<0.005	0.005-20	≤20	>20

Treatment is recommended for all Class 3 and 4 soils.

#### NOTES:

##### Class 1 Soil Uses:

Any use which will not cause threat to human health or the environment.

##### Class 2 Soil Uses:

Backfill at the cleanup site

Fill in commercial or industrial areas

Cover or fill in permitted landfills

Road subgrade or other road construction fill

Fill in or near: wetlands, surface water, ground water, drinking water wells or utility trenches is NOT recommended. Use as residential topsoil is also NOT recommended.

##### Class 3 Soil Uses:

Treatment

Disposal at the original site (no solid waste disposal permit needed)

Road construction (no solid waste disposal permit needed)

Use or disposal in permitted, municipal landfills

Permitted as a new PCS landfill

(An evaluation should be made to ensure that disposal will not cause a threat to human health or the environment, e.g. use near water bodies)

##### Class 4 Soil Uses:

Treatment

Disposal in a permitted, municipal landfill

Permitted as a new PCS landfill